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## WHAT IS CLAIMED IS

- 1. A composition for use in treating or preventing mycoplasma infection in a subject suffering from a disorder selected from the group consisting of (i) a disorder characterized by increased cell proliferation and (ii) a disorder characterized by co-infection with mycoplasma and a second microbe, comprising an agent that prevents or inhibits sialic acid-mediated attachment of mycoplasma to cells of the subject.
- 2. The composition of claim 1, where the agent is an enzyme having an activity selected from the group consisting of neuraminidase activity, trans-sialidase activity, and a combination of neuraminidase and trans-sialidase activity.
  - 3. The enzyme of claim 2, where the enzyme is derived from a *Trypanosoma cruzi* microorganism.
  - 4. The enzyme of claim 3, where the enzyme is a native enzyme.
  - 5. The enzyme of claim 3, where the enzyme is a recombinant enzyme.
- 6. The enzyme of claim 5, where the enzyme has an amino acid sequence as set forth in (SEQ ID NO:2).
  - 7. The composition of claim 1, where the disorder is atherosclerotic vascular disease.
  - 8. The composition of claim 1, where the disorder is a malignant disease.
- 9. The composition of claim 1, where the disorder is coinfection with a human immunodeficiency virus.

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- 10. The composition of claim 1, where the disorder is coinfection with a chlamydia microbe.
- 11. The use of an agent that prevents or inhibits mycoplasma infection for the manufacture of a medicament for treating a disorder characterized by increase cell proliferation.
- 12. The use as in claim 11, wherein a vector containing the DNA insert as set forth in (SEQ ID NO: 1) is to produce the enzyme of the claim 6.
- 13. The composition of claim 11, where the disorder is atherosclerotic vascular disease.
  - 14. The composition of claim 11, where the disorder is a malignant disease.
  - 15. The composition of claim 12, where the agent is an antibiotic.